TABLE A-5a

Science, engineering, and health organizational units with nonfaculty researchers, by detailed field: 2018–20 (Number)

| Field | 2018 | 2019 | 2020 |
|--|----------|----------|----------|
| All surveyed fields ^a | 4,987 | 5,460 | 5,67 |
| Science | 2,891 | 3,109 | 3,25 |
| Agricultural and veterinary sciences | 146 | 169 | 23 |
| Agricultural sciences | 146 | 169 | 16 |
| Veterinary biomedical and clinical sciences ^b | na | na | 6 |
| Biological and biomedical sciences ^c | 1,163 | 1,195 | 1,27 |
| Biochemistry | 101 | 103 | |
| Biology | 129 | 126 | 13 |
| Biomedical sciences | 27 | 37 | |
| Biophysics | 5 | 7 | |
| Biostatistics and bioinformatics | 63 | 57 | |
| Biotechnology | 12 | 12 | |
| Botany and plant biology | 35 | 31 | |
| Cell, cellular biology, and anatomical sciences | 87 | 88 | |
| Ecology and population biology | 45 | 35 | |
| Epidemiology | 20 | 20 | |
| Genetics | 63 | 74 | |
| Microbiological sciences and immunology | 108 | 115 | 1: |
| Molecular biology | 29 | 29 | |
| Neurobiology and neuroscience | 92 | 96 | 10 |
| Nutrition science | 37 | 24 | |
| Pathology and experimental pathology | 47 | 51 | |
| Pharmacology and toxicology | 71 | 75 | |
| Physiology Physiology | 94 | 107 | 1 |
| · · · · · | | 35 | <u>'</u> |
| Zoology and animal biology | 33 65 | 73 | |
| Biological and biomedical sciences nec | | 149 | |
| Computer and information sciences | 126 | | 1: |
| Artificial intelligence, informatics, and computer and information science topics Computer and information sciences | na 45 | na 55 | |
| · | - | | |
| Computer and information systems security | na | na | |
| Computer science | 52 | 56 | |
| Information science and studies | na | na | |
| Information technology | na | na | |
| Computer and information sciences nec | 29 | 38 | |
| Geosciences, atmospheric sciences, and ocean sciences | 206 | 226 | 2 |
| Atmospheric sciences and meteorology | 41 | 41 | |
| Geological and earth sciences | 104 | 126 | 1 |
| Ocean and marine sciences | 44 | 42 | • |
| Geosciences, atmospheric sciences, and ocean sciences nec | 17 | 17 | |
| Mathematics and statistics | 69 | 76 | |
| Applied mathematics | na | na | |
| Mathematics | na | na | : |
| Mathematics and applied mathematics | 49 | 53 | |
| Statistics | 20 | 23 | : |
| Multidisciplinary and interdisciplinary studies ^c | 155 | 177 | 1 |
| Biological and physical sciences | na | na | |
| Computational science | na | na | |
| Data science and data analytics | NA | NA | |
| International and global studies | na | na | |
| Multidisciplinary and interdisciplinary studies nec | na | na | 1 |

TABLE A-5a

Science, engineering, and health organizational units with nonfaculty researchers, by detailed field: 2018–20 (Number)

| eld | 2018 | 2019 | 2020 |
|--|------|------|------|
| Natural resources and conservation | 118 | 133 | 1: |
| Environmental science and studies | 47 | 48 | |
| Forestry, natural resources, and conservation | 71 | 85 | |
| Physical sciences | 377 | 391 | 4 |
| Astronomy and astrophysics | 45 | 50 | |
| Chemistry | 144 | 154 | 1 |
| Materials sciences | 23 | 21 | |
| Physics | 150 | 145 | 1 |
| Physical sciences nec | 15 | 21 | |
| Psychology | 114 | 129 | 1 |
| Applied psychology | na | na | |
| Clinical psychology | 5 | 5 | |
| Counseling psychology | na | na | |
| Counseling and applied psychology | 23 | 32 | |
| Human development ^d | na | na | |
| Psychology, general | 64 | 73 | |
| Research and experimental psychology | 22 | 19 | |
| Social sciences | 417 | 464 | 4 |
| Agricultural and natural resource economics | 18 | 19 | |
| Anthropology | 33 | 35 | |
| Area, ethnic, cultural, gender, and group studies | na | na | |
| Criminal justice and safety studies | 6 | 7 | |
| Criminology | na | na | |
| Economics (except agricultural and natural resource) | 41 | 43 | |
| Geography and cartography | 30 | 35 | |
| Human development ^d | 26 | 32 | |
| International relations and national security studies | 9 | 11 | |
| Linguistics | 15 | 14 | |
| Political science and government | 23 | 28 | |
| Public policy analysis | 62 | 63 | |
| Sociology | 42 | 46 | |
| Urban studies and affairs | na | na | |
| Social sciences, other ^e | na | na | |
| | 1 | 2 | |
| History and philosophy of science ^e | | | |
| Social sciences nec ^e | 111 | 129 | |
| Engineering ^f | 751 | 822 | 8 |
| Aerospace, aeronautical, and astronautical engineering | 26 | 24 | |
| Biological, biomedical, and biosystems engineering ^e | na | na | 1 |
| Bioengineering and biomedical engineering ^e | 76 | 91 | |
| Biological and biosystems engineering ^e | 9 | 11 | |
| Chemical, petroleum, and chemical-related engineering | 83 | 89 | |
| Chemical engineering | 71 | 79 | |
| Petroleum engineering | 12 | 10 | |
| Civil, environmental, transportation and related engineering fields | 107 | 120 | 1 |
| Civil engineering | 107 | 120 | 1 |
| Architectural, environmental, construction and surveying engineering | na | na | |
| Electrical, electronics, communications and computer engineering | 120 | 128 | 1 |
| Electrical, electronics, and communications engineering | 120 | 128 | 1 |
| Computer engineering | na | na | |

TABLE A-5a

Science, engineering, and health organizational units with nonfaculty researchers, by detailed field: 2018–20 (Number)

| ld | 2018 | 2019 | 2020 |
|--|-------|-------|------|
| Industrial, manufacturing, systems engineering and operations research | 39 | 40 | 4 |
| Industrial and manufacturing engineering | 39 | 40 | 2 |
| Systems engineering and operations research | na | na | 2 |
| Mechanical engineering | 98 | 105 | (|
| Metallurgical, mining, materials and related engineering fields ^e | 65 | 72 | (|
| Metallurgical and materials engineering ^e | 53 | 59 | ı |
| Mining engineering ^e | 12 | 13 | |
| Other engineering | 128 | 142 | 1 |
| Agricultural engineering | 17 | 16 | |
| Engineering mechanics, physics, and science | 18 | 18 | |
| Nuclear engineering | 13 | 11 | |
| Engineering, other ^e | na | na | 1 |
| Nanotechnology ^e | 11 | 17 | |
| Engineering nec ^e | 69 | 80 | |
| Health | 1,345 | 1,529 | 1,5 |
| Clinical medicine | 1,044 | 1,195 | 1,2 |
| Anesthesiology | 38 | 42 | |
| Cardiology | 33 | 37 | |
| Endocrinology | 27 | 29 | |
| Gastroenterology | 20 | 19 | |
| Hematology | 22 | 28 | |
| Medical clinical sciences and clinical and medical laboratory sciences | NA | NA | |
| Neurology | 66 | 73 | |
| Obstetrics and gynecology | 27 | 31 | |
| Oncology and cancer research | 49 | 69 | |
| Ophthalmology | 45 | 42 | |
| Otorhinolaryngology | 29 | 27 | |
| Pediatrics | 60 | 96 | |
| Psychiatry | 52 | 47 | |
| Public health | 119 | 135 | 1 |
| Pulmonary disease | 25 | 22 | |
| Radiological sciences | 52 | 61 | |
| Surgery | 113 | 127 | 1 |
| Clinical medicine nec | 267 | 310 | 3 |
| Other health | 301 | 334 | 2 |
| Communication disorders sciences | 25 | 23 | |
| Dental sciences | 33 | 35 | |
| Kinesiology and exercise science | na | na | |
| Nursing science | 40 | 38 | |
| Pharmaceutical sciences | 63 | 77 | |
| Veterinary biomedical and clinical sciences ^b | 54 | 61 | |
| Other health nec | 86 | 100 | |

na = not applicable; data collected under different Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) codes or GSS code moved. NA = not available; GSS code contains Classification of Instructional Programs (CIP) codes added in 2020.

nec = not elsewhere classified.

^a Several field names changed in 2020; the field names listed in this table are the field names used in the GSS collection and reporting for 2020. For a complete list of field names from 2017 to 2020, see https://ncses.nsf.gov/pubs/nsf21318/table/A-17.

^b In 2020, veterinary biomedical and clinical sciences moved from other health to agriculture and veterinary sciences.

^c Prior to 2020, multidisciplinary and interdisciplinary studies was reported as a single broad field with no detailed fields; the detailed fields were

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added in 2020.

Note(s):

"Field" refers to the field of the unit that reports doctorate-holding nonfaculty researchers to the GSS. This file only contains fields where graduate students may be reported. Detailed fields listed as NA are comprised entirely of CIP codes added in 2020. For more information on the mapping of GSS fields and codes, see technical table A-17.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

^d In 2020, human development moved from social sciences to psychology.

^e Starting in 2020, some fields were combined for reporting. See technical table A-16 for more information.

^f In 2020, broad fields were added to engineering.